Plan For Combat Of Pollution On Muskokas Is Explained to Area Representatives

Pollution abatement on the what they can do about the calculating the factors responsible for algal growth. Muskoka lakes was given intensive consideration at a meeting, early this month, between personnel of the Ontario Water Resources Commission, the Department of Lands and Forests, and the Muskoka Lakes Association.

The Muskoka Lakes Association is a voluntary organization, formed to ensure protection of the lakes from adverse developments. Members of the association have been gathering data, with the assistance of OWRC, to illustrate the bacteriological conditions in some areas of the lakes and to "show people

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CAZON WR

- W17

High priority was given at the meeting to a discussion of OWRC's forthcoming summer program on the lakes. The area has been chosen by the Commission as the site for a special study on nutrient enrichment.

Commission personnel explained to the Muskoka representatives the significance of the enrichment problem and detailed the investigations to be conducted this summer in Lake Muskoka, Lake Rosseau, and Lake Joseph. The studies will concentrate on "budgeting the nutrients"—determining sources and quantity-and

is anticipated that the entire program will establish the relationship between nutrient enrichment and algal development and determine what controls on municipal effluent and septic tank discharges will be necessary.

OWRC technical and scientific staff indicated at the meeting that they feel the program has "a high probability of success."

The Commission first became involved in investigations of the nutrient problem in the lakes when residents in some areas complained of the



EQUIPMENT such as dredge-scoop above, operated from boat, will be used in summer program on Muskokas. The scoop collects soil from the bottom which can later be analyzed for nutrient content.

Watertalk



AT MARKHAM Water Treatment Plant, Dave McVie, manager of the Markham Public Utilities Commission and superintendent, Arnold Thomas, calibrate volume of silicate to be added to water supply. Markham was first to use silicate treatment.

Cheap But Effective

Silicate Treatment Developed To End 'Excess Iron' Problems

A recently developed technique may signal an end to the frustrations of many Ontario municipalities saddled with problems caused by marginal quantities of excess iron in their water supply.

BLOOD-LIKE TASTE

Nuisances experienced as a result of the presence of iron

include the staining of sinks and clothes and, often, a blood-like taste in the water.

INTRODUCED AT MARKHAM

The new treatment, developed by the Ontario Water Resources Commission, consists of supplementing the natural silicate content of the water by the introduction of minute quantities of sodium This additional silisilicate. cate combines with the iron



CHEMICAL ENGINEER lim Dart of OWRC carefully tabulates results of treatment in continuing study.

state, blocking formation of an iron "sludge." The silicate treatment was

to maintain it in a soluble

initiated at the water treat-ment plant in the town of Markham in February after four months of study and trials. Introduction of chlo-rination at Markham last year had resulted in the formation of unprecedented amounts of the "sludge" in the mains.

CHEAP SOLUTION

Added at the point of chlorination, the silicate has pro-vided a cheap but effective remedy to the town's problem. It is estimated that installation of a plant for removal of iron from the water would have cost residents about \$175,000. Cost of the silicate additive will be about \$1,200 per year.

OWRC is currently conducting studies of the iron nuisance in other municipali-

June Date For Industrial Waste Conference

Four weeks to go to the 16th annual Industrial Waste Conference!

It is anticipated that this year's conference - run-ning from June 15-18 will be the biggest yet. Last year's conference at-tracted 300 delegates.

Setting for the meeting will, once again, be Niagara Falls. All technical and social sessions will take place at the Sheraton-Brock while accommodation will

be next door at the Sheraton-Foxhead.

Subjects to be discussed during the three-day pro-gram include inorganic and solid wastes, geologic and hydrologic studies, metal working wastes, research studies and food and animal wastes.

Papers will be delivered by both Canadian and American specialists who are experts in their respective fields.

Special family plans have been arranged by OWRC's conference c o m m i t t e e, which sponsors the Industrial Waste Conference, for delegates who can com-bine attendance with their holidays. A ladies program has also been finalized.

Any questions or prob-lems with regard to the conference should be directed to the committee secretary, Len Tobias, at 365-6961 in Toronto.

20 Years Of Key Management

Donald J. Collins-following 20 years of key manage-ment responsibilities in the Civil Service — was recently appointed chairman of the Ontario Water Resources Commission.

He succeeds Dr. James A. Vance who retired late in March.

Chairman of the Civil Service Commission of Ontario and deputy minister of the Department of Civil Service,

prior to his OWRC appointment, Mr. Collins joined the government in 1949 as personnel assistant in the Civil Service Commission, rising to chief classification officer.

Donald J. Collins Is Appointed New Chairman Of OWRC

In 1954 he was promoted to the position of executive assistant to Prime Minister Leslie Frost and served on three select committees as

As deputy minister of the of Highways

from 1957 to 1960, Mr. Collins was responsible for the development of policies relating to highway practices.

In addition to reporting to Premier Frost and latterly, Premier Robarts, he has re-Premier Robarts, he has reported to James N. Allan, Matthew Dymond, John Yaremko, and C. S. Mac-Naughton, ministers of the cabinet and has been closely associated with the overall formulation of government

On announcing the appointment of Mr. Collins, the Prime Minister stated: "His knowledge and experience will further strengthen the Commission in its new and expanded role of involving the people of Ontario more fully in the decision-making process which will result in greater protection and enhancement of our environ-



Donald I. Collins

Watertalk

Editor: 1. A. Marshall Director of Public Relations: M. F. Cheetham

An Area Of Conflict

Should the head of an industry be responsible to the citizen or to the shareholder?

This is an area of conflict, occasionally revealed by irate executives attempting to stall the installation of anti-pollution devices because the cost will eat into profits.

BROADER RESPONSIBILITY

In most instances, company representatives should, of course, be responsible to shareholders. But in areas of vital, ational significance such as pollution control, the normal iness ethic must be discarded and a broader outlook adopted. To continue to pollute and destroy the environment because it is economically profitable for a few would be both unrealistic and unfair

No one, it should be pointed out, gains more from natural resources than the industrialist. It stands to reason, then, that industry should devote a proportion of its earnings to recovery and protection of the environment.

A percentage of the income of every taxpayer goes for waste treatment. There is no reason why industry should be exempt from such cost. By reverting part of its income to pollution abatement, industry is doing no more than its share.
Ontario, fortunately, has not found it necessary to pursue a policy of force in order to implement pollution control in

GENERALLY CO-OPERATIVE

Ontario companies have, in fact, generally shown themselves quite willing to co-operate in achieving water quality objectives. Where necessary, programs for the installation of pollution devices on a gradual basis have been worked out with the Ontario Water Resources Commission.

The Commission, though, is firmly opposed to the selfish approach which ignores the interests of the citizens of the vince. All Ontario plants will brought up to OWRC

Lake Erie: A Long Range Challenge

The Name Of The Game Is Eutrophication - The 'Aging Of The Lake' It Has Been Tremendously Accelerated By Nutrients From Municipal Sources

and justifiable public concern over the pollution problems of Lake Erie in recent years.

A number of physical factors have contributed to make Lake Erie more susceptible than the other Great Lakes to the effects of waste materials. The two most critical features shallowness and a relatively high temperature - have pro-

There has been considerable moted a process known as fully described as "the prethe water quality problems of digustifiable public concern eutrophication, characterized mature aging" of the lake. by algal blooms and a super-

This over-enrichment of the lake by the municipal waste Nutrients present in detergents and other municipal waste treatment systems is by far the materials and, to a lesser most serious problem in Lake extent, in the run-off from Erie. On the Ontario side, polfarmlands have tended to build lution from industry has graduup — making ideal conditions ally been eradicated until it is troit River and contributing to for the growth of algae. The now almost non-existent and process has been more color- certainly a minimal factor in Erie will be greatly reduced

There has been considerable success, too, in implementing municipal waste treatment. All municipalities discharging to plants in operation. Ontario wastes discharging to the Dethe waste load on the Lake with the opening of the Windsor sewage treatment plant this

NUTRIENT EXPERIMENTS

None of the current treatment plants, however, are specifically designed to facilitate a high degree of nutrient

It has been recognized that there is no simple solution to the problem of overfertilization and that it will have to be considered a long range challenge. Presently, data on the magnitude of nutrient sources is being compiled as a primary step in coming to grips with the problem. In experimental activities, attempts are being made to develop practical methods for a high degree of nutrient removal from municipal wastes and for the control of nutrients from farm-lands.

TWO-PRONGED ATTACK

Ontario's pollution abatehent activities on Take Frie take the form of a two-pronged First, conditions are continually assessed on either

grams for improvement and will continue, even after ment, the danger of bacterial protection of these areas are recommendations have been developed and implemented implemented, to ensure that from these studies.

Some of these regional investigations are major studies in themselves. An intensive study of the waste flow pat-

a local or regional basis. Pro- Surveys of the Lake Erie quality more recently, waste treat-

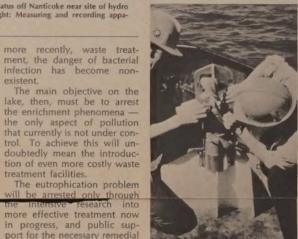
Above: Divers, technicians and engineers prepare to install monitoring apparatus off Nanticoke near site of hydro station, now under construction, and proposed steel processing complex. Right: Measuring and recording apparatus is prepared for installation.

It should be pointed out tern in the entire Grand River that part of Ontario's present Basin — Lake Erie's largest water quality philosophy is to

The main objective on the the desired effect is being lake, then, must be to arrest the enrichment phenomena -

the only aspect of pollution that currently is not under control. To achieve this will undoubtedly mean the introduction of even more costly waste treatment facilities.

The eutrophication problem more effective treatment now in progress, and public support for the necessary remedial



Support Structure Developed By Commission Engineers ...



TORONTO SKYLINE in background, Commission technicians prepare to tow monopod to water quality testing site. Monopod can be transferred from site to site in less than a day.

It looms some 42 feet into greatly simplify the instal- and recording systems inmissing the boom and sails. Towed behind a small boat, it wallows ponderously in the water. Undoubtedly, its awkward sealines would give a naval architect night-

And vet the new structure, mysteriously dubbed engineering breakthrough in the design of submersible instrument support structures. Its eccentricities will tional sub-surface measuring is forced into them

neatly sidestepped the limiting factors shore.

of conventional water quality robot

Robot monitors measure and record

parameters of water quality. Monitors

currently in use throughout North

America are heavy, unwieldy instru-

ments, either supported above water in

buoys or towers or "fixed" in semi-

permanent shore housings. In both

cases, tubes and pumping apparatus

are necessary to conduct the water

Monitors installed above water are

'stripped" for compactness, and can

quality. Shore based installations can lation

through the monitor for analysis.

the air — looking like a lation of underwater equip-poorly planned sail boat, ment for measuring and recording water quality and Developed by the On-

tario Water Resources Commission, the device is completely portable. While dismantled, it can be transported in a small truck. Towed to the testing site Monopod — represents an by boat, it is recoverable for use at other locations.

Installation of conven-

... Used In Trial Of New 'Robot'

volves the lowering of concrete anchors or frameworks from a crane - equipped barge. Anchor cables, the some instances, stabilizing buoys must be affixed under-water by scuba divers.

The monopod is anchored by three barrel-like appendages which, when filled with water, dig in to the bottom. "barrels" become

floats, lifting the entire structure to the surface, when air

overcomes these problems by func-

are recorded on a computer compat-

ible magnetic tape within the instru-

ment. The device has recently been

tested via OWRC's new instrument

support structure, the monopod, off

the Toronto waterfront.

Instruments for measuring and recording characteristics of water quality can be attached to the monopod from the surface, via a measuring devices and, in pulley-like apparatus, eliminating the need for divers. This same arrangement permits easy reading of instruments.

The great stability of the new unit makes it particularly useful for shallow water operations where heavy action might shift a system anchored by con-



Cost is \$7,500 as opposed to about COMPACT NEW submersible measuring and measure only a few indicators of water \$14,000 for a land-based robot instalrecording device is easily attached to movia a pulley-like apparatus.

tributary - will be completed try to forecast the effects of

implement the necessary measures to ensure the suitability range of uses. An operation of erating station and a proposed steel processing complex. The This appraisal of conditions intensive studies being conallow a prediction of the effects of the proposed developments and the incorporation of necessary safeguards in the

NO HEALTH HAZARD

How has the discharge of waste materials into Lake Erie affected its use as a municipal water supply? Undoubtedly it has, generally, forced the adopdanger of infection from bacopment of adequate water loint Commission this year. treatment techniques and,

Says Soap And Detergent Representative "Industry is committed to at the Commission laborafinding a replacement for tory, Mr. Bueltman emphaphosphorus," according to sized "there wouldn't be Charles G. Bueltman, vice- any hesitancy" on the part president of the U.S. Soap of industry to switch to an alternative to phosphorus if and Detergent Association.

Industry Committed To Replacing Phosphorus'

Phosphorus, an ingredient in detergents, is closely assoof algal conditions in some

Speaking on the eutro-



VICE-PRESIDENT of Soap and Detergent Association, Charles G.

He noted that "like any ciated with the development recipe, algal bloom can be controlled by some dependent element.

He cautioned, though, against taking for granted cent address to OWRC staff the finding of a phosphorus substitute, pointing out that the magnitude of the problem might necessitate years

> Also chairman of the U.S. Joint Industry - Government Task Force — originated by the Federal Water Pollution Control Administration in 1967, Mr. Bueltman traced the accomplishments of the

To date the task force has established a "eutrophication information centre" at the University of Wisconsin and has initiated research into a standardized procedure to measure the algal growth potential of various chemicals and waters.



abundance of algal growths.

The industrial executive has a dual responsibility—to the npany and the community.

SURVEY CRAFT MONITORS Detroit River flowing into Lake Erie. Municipal wastes entering the Detroit from the Windsor area will be greatly reduced with the opening of the Windsor sewage treatment plant this year.

Washington Meeting Lake Erie was high on the agenda of the delegates were reporting on items discussed at a recent meeting of the International Joint Commission advisory program

in Washington.

The meeting was attended by D. J. Collins, chairman of the Ontario Water Resources Commission, and OWRC general manager, D. S. Caverly, as well as representatives of the states bordering the Great Lakes.

this year. The findings will anticipated wastes, and to provide a foundation for the development of a tailored-to- of the lake waters for a wide measure policy for water quality control in the river and this nature is currently in progwill undoubtedly have a bene- ress at Nanticoke, on Lake Erie, ficial effect on the water at the site of a thermal gen quality of Lake Erie.

in the Grand, with a view to ducted at this location will developing an overall water quality program for the river, could be said to be a parallel, on a minor scale, to the second phase of the province's wastewater treatment facilities. pollution abatement activities on Lake Erie.

IOINT STUDIES

Since 1965, Ontario has participated with U.S. and Canadian agencies in studies to define the conditions in the lake and to develop specific niques. However, the lack of programs for water quality large communities on the management. A detailed renorthern shore of the lake has port, outlining practicable always tended to make the remedial measures and their probable costs, will be pre- teria minimal. With the develsented to the International



FINISHING TOUCHES are put to new OWRC film 'Teamwork' by (l. to r.) Andy Paul, Hans Eijsenck and Mike Wallace, Commission photographic staff. The film will be about 22 minutes in length and is expected to be available for distribution by early summer. It is the third entirely produced by OWRC staff.

Number Of Pump-out Locations Continues To Grow

In response to a continuing OWRC survey, 114 marina operators have now indicated they will provide pump-out service during the coming boating season.

An up-to-date chart, showing the pump-out locations in Ontario and States bordering the Great Lakes will be published by OWRC early in the boating season.

Meanwhile, the commission continues to provide technical information to marina operators interested in installing equipment.

Material describing the

various types of pump-out equipment is available as well as a list of the manufacturers.

OWRC personnel working "in the field" have been giving personal attention to the queries and problems of various marina operators.

The operators are installing the equipment in anticipation of demand for such facilities by boaters as the result of legislation which went into effect last January, making holding tanks or incinerating devices mandators with sleeping accommodation.



PUMP - OUT locations throughout

Final Touches Put To Film On 'Teamwork'

Final editing work is being completed by OWRC photographic staff on a new documentary which will bring to a total of eight the number of films available through OWRC.

PARTNERSHIP THEME

The film—'Teamwork'—has as its underlying theme the necessity of co-operation and co-ordination between the various aspects of society and the Commission in order to combat pollution and ensure an abundant supply of fresh water.

ORDER IN NATURE

To illustrate this point the film depicts the order and co-ordination in nature as well as showing how man can accomplish tasks much more effectively through the utilization of teamwork.

Success through teamwork is shown to be effective on all levels—in government, indus-

try and in the schools. Pollution is shown to result as a lack of the teamwork that comes from effective planning.

DESCRIBES HISTORY

As well as describing the history of water management in Ontario, and the reason for establishing OWRC, the film depicts the role of the individual and the various segments of society in the control of pollution.

AVAILABLE BY SUMMER

Initial work on 'Teamwork' commenced last October. It is expected to be available to the public by summer. It is the third film entirely produced and directed by OWRC staff. Running time will be about 22 minutes.

To get a complete list of the films available from the Commission contact OWRC Public Relations and Information, 135 St. Clair W., Toronto.

New President Elected At OMWA Meeting

New president of the Ontario Municipal Water Association is R. B. Leslie of Learning Mr. Leslie was MWA's third annual meeting, held in Toronto recently.

Toronto recently.

Highlight of the meeting was a speech on the positive aspects of regional government by R. W. Speck, Mayor of Mississauga. Speaking in favour of "modernized municipal governments", Mr. Speck pointed out that this could make for more viable economic units. He cautioned, though, that with such expansion protection must be ensured for undeveloped areas such as farmlands.

Other items on the agenda included a panel discussion—on regional government—the

keynote theme of the meeting — and a discussion on "What Industry is Doing to

Control Pollution" by Dofasco and Domtar representatives.

For Control Of Aquatic Nuisance

185 Chemical Permits Issued In '68

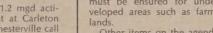
A total of 185 permits authorizing the use of chemical measures for the control of aquatic nuisance were issued by OWRC in 1968.

The figure represents an increase of 36% over the 136 permits authorized in 1967 and brings to 688 the total number of permits issued since legislation was enacted in 1962.

The majority of permits

issued in 1968 provided authorization for treatments in the forest districts of Kemptville, Lindsay and Lake Simcoe.

A pamphlet entitled "What to do about weeds in your lake" was prepared and distributed by OWRC to notify private individuals of the existence of the permit system and the availability of technical information pertaining to the use of aquatic pesticides.





Special Filtration Workshop

PAUL FOLEY, supervisor of the technical advisory services branch of OWRC explains "jar test" to water treatment personnel at special purification workshop held recently at the Westerly Filtration Plant in New Toronto. The workshop—third of a series conducted under auspices of the Commission—provided a review of basic principles of water treatment as well as training. Commission water works supervisor, A. B. Redekopp chaired the workshop.

News Round-up

 Agreements for sewage works programs, executed recently, include projects at the town of Carleton Place, and the villages of Arthur and Chesterville.
 Total cost of the three projects is estimated at over \$1,600,000.

Plans call for the construction of a 1.2 mgd activated sludge sewage treatment plant at Carleton Place. The programs at Arthur and Chesterville call for collector sewer and treatment work construction. The three projects are being financed via a provincial plan under which the municipalities pay for service on a use basis only.

• The Fifth Rudolfs Research Conference will be held at Rutgers University, in New Jersey, from June 30 to July 2 this year.

Theme of the conference will be "Origin, Distribution, Transport, and Fate of Organic Compounds in Organic Environment."

The three-day period will be divided into seven sessions to facilitate in depth consideration of the various topics

Further information can be obtained from Roger Locandro, assistant director of Rutgers' College of Agriculture and Environmental Science, New Brunswick, New Jersey.

 Tenders were closed by OWRC this month for the development of a 55-foot survey vessel.

In the near future the commission hopes to utilize faster, more versatile vessels in its investigations of the Great Lakes.

To date, tugs have been the backbone of Great Lakes operations.

Nature And Man

Towards

Conservation

'Ethic'

has been an increased public awareness of the deleterious affects of inthe environment.

control of pollution, harmony with nature. though there is still considerable controversy over allocated for preservation of nature.

come aware of the com- still takes precedence over

In the past decade there plexity and risks inherent measures to ensure ade-

What is needed in condustrial-urban activities on junction with this approach is an overall plan -an 'environmental ethic' Few people today, if —that will base our activiany, question the need for ties and expansion on a

To date, the expansion what funds should be of the North American society has been, from an environmental point of view, inadequately con-The controversy, how- trolled. Though there is ever, is gradually shifting now a general awareness in favour of a full scale of the dangers of polluno-holds-barred attack on tion and an increasing pollution throughout readiness to provide funds North America as greater for pollution combat, innumbers of people be- dustrial - urban expansion

in environmental prob- quate protection of the environment. This puts us in the position of a man continuously losing a race. Pollution control is perpetually outflanked by industrial development and mushrooming population.

> Obviously, a race like this cannot go on forever.

> Uncontrolled expansion for the sake of expansion must come to end. Future activities of both industry and the community must be based on what the effects will be to the environment.

> In the long run this will mean a higher standard of living for everybody.

OWRC 'Blues'?

Sprinklers' 'Gradual Build-up' Plan Loses Steam In Semi-finals

Stasiuk's policy of "gradually building steam" fizzled out as the team suffered a fatal drubbing at the hands (or sticks) of Club 55 in the semi-finals of the Queens Park Hockey League.

Right up to the semi-finals Stasiuk had high hopes that his team would gradually gain momentum and, ultimately, achieve victory.

However, the death knell was sounded when the Sprinklers entered the playoffs in third place instead of second, according to Stasiuk's plan. This meant that

OWRC Sprinkler coach Jim the team had to pit itself against the first place Club 55 instead of the fourth place Trans-Canada Pipeline

> The Sprinklers lost both games in the two game, total points series (by scores of 4-2 and 7-4) to wind up in third place in the final standings, behind Club 55 and Customs.

Part of the trouble, said Stasiuk, was that several of the team's best players left in mid-season to continue university studies. Hopefully. he added, this misfortune won't recur next year.

Stasiuk also revealed that next year he plans to change the name of the team. (Sprinklers has never really been the official name of the team and, in fact, may originally have been thought of as a joke.)

The name currently under consideration is The Blues.

One cynical observer has already commented that, in view of the team's present status, the name may have a double meaning.



A BLUE COACH, Jim Stasiuk, sanitary engineering, contemplates changing name of OWRC Sprinklers to OWRC Blues. His team lost out in semi-finals to Club 55, winding up in third place, behind Club 55 and

Ground Water Pollution

Report Stresses Need For Geological Studies

water supplies as a result of population and industrial build-up can be avoided through an awareness of geological factors, according to a report in the April edition of Ground Water, the journal of the U.S. National Water Well Association.

The report, prepared by James H. Williams, chief geologist of the Missouri Geological Survey, stresses surface pollution."

Pollution of underground the need for planning in the larly with regard to location.

> It documents pollution problems that have occurred in Missouri as a result of failing to take into account geological features of the land, pointing out that "the source and subsurface conditions that have created a of the report is that the tremendous catchment for physical features in a develsub-surface water supply in oping area be documented southern Missouri will just as in text and map form as the easily create catchments for first essential step in avoid-

> The report also notes "the disposal of wastes, particu- natural incentive" to put money first and waste disposal second-"Thus we receive requests as to where the lagoon site should be located for town 'X's' factory after the factory has been built in an area of sinkholes."

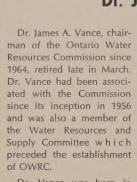
> > A major recommendation ing ground water pollution.



SENIOR MANAGEMENT of the Commission held a three-day meeting recently to review the Commission's operations for the past year and to Directors' Meeting: discuss a program for the ensuing year. Above, management is shown outside of the Guild Inn in Scarborough where the meeting was held.

Premier Robarts Expresses Personal Appreciation

Associated With Commission Since Formation Dr. James A. Vance Retires



Dr. Vance was born in Oxford county and presently resides in Woodstock, Ontario. He studied civil engi-

Left: Dr. Vance accepts gift from staff at farewell luncheon held at the Park Plaza Hotel in Toronto. Below: New chairman D. J. Collins compliments Dr. Vance (shown with Mrs. Vance) on his years of distinguished service.

Toronto and in 1941, on the death of his father, assumed direction of the family's construction company in Woodstock. He is a pastpresident of the Engineering Institute of Canada, a member of the Engineering Advisory Committee of the University of Western Ontario, and a member of the American Society of Civil Engineers. He has also served as Ontario director of the Chamber of Commerce and as chairman of the Canadian Forestry Association.

In public service he has sat on several hospital boards in Woodstock and London and is a past-president of the Oxford County Tuberculosis Association.

In 1959 he received an honorary degree, Doctor of Laws from the University of Western Ontario.

TECHNICAL DEVELOPMENT

In anouncing Dr. Vance's retirement to the members of the Ontario Legislature on Friday, March 28th, the Hon. John Robarts, Prime Minister of Ontario, stated that the retiring chairman "has guided the development of the technical staff of the Ontario Water Resources Commission to a position where it is recognized as one of the most advanced groups in its field today. Under his chairmanship, OWRC has achieved spectacular results in the field of water supply and pollution abatement. The Collins, who has been chairbeneficial effect of Dr. man of the Civil Service Vance's work as chairman of Commission and Deputy the Commission will have a Minister of the Department continuing and salutary in- of Civil Service.

Dr. James A. Vance, chair- neering at the University of fluence on the lives of the people of Ontario for many years to come."

> The Prime Minister expressed his personal appreciation to Dr. Vance for the advice he had given to the government and assured him on behalf of the House that "we will continue the important work for which you have laid so sound a foun-

MEMBER OF COMMITTEE

Dr. Vance was a member of the Ontario Water Resources Committee prior to being appointed a Commissioner in 1956. It was that year the OWRC was set up by the Ontario government on the recommendation of the committee which had carried out an intensive investigation of Ontario's water supplies.

Dr. Vance took over as chairman in 1964 just as the Ontario Water Resources Commission was embarking upon a new phase of its diversified program concerned with the development, utilization, treatment and management of water resources and the provision of adequate pollution control measures in Ontario. The new undertaking involved the building and operation of water pipelines with Ontario Government funds in areas where the supply was indicated to be inadequate.

Ontario Water Resources Commission is Donald I.



After The Fair

IT LOOKS EMPTY NOW but OWRC's compact new display was the site of busy activity at the opening of the Tobacco Growers' Equipment and Supply Trade Fair at Tillsonburg on April 9. The display was the first at which the Commission's new Watercare theme was used. Commission representatives supplied information on the use of water for irrigation and on the permit system governing water withdrawals.





SPECIAL FEATURES AND EMPLOYEE NEWS



Information Manual Now Available To Industry

An information manual containing the working documents normally used by OWRC in dealing with in-The new chairman of the dustries in the province has been prepared by the Commission's division of industrial wastes.

firms that are developing a procedures. waste treatment application for the first time with the procedures and requirements of OWRC. It will be particularly useful to industries planning to locate in the

Included in the informa-The manual will serve a tion is a brief outlining in through OWRC's division of very useful purpose in ac- general terms OWRC's in- industrial wastes.

quainting those persons or dustrial policy, program and

A copy of the Ontario Water Resources Commission Act as well as the recently prepared booklet Industrial Pollution Control in Municipalities is also included.

The manual is available

